

STATE OF CALIFORNIA
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

MONITORING AND REPORTING PROGRAM NO. CI-XXXX
FOR
FORMER WHITTAKER-BERMITE FACILITY
SANTA CLARITA SITE

FILE NO. 06-114

The Discharger shall implement this monitoring and reporting program on the effective date of this Order.

I. GROUNDWATER MONITORING PROGRAM

It is anticipated that the pilot test will be initiated in the third quarter of 2006. The 18 monitoring wells to be used for this monitoring and reporting program (MRP) are 11-MW-1, 11-MW-2, 11-MW-3, 11-MW-4, DMW-1d, DMW-2s, DMW-2d, DMW-3, DMW-4s, DMW-4d, DMW-5s, DMW-5d, DMW-6, DMW-7s, DMW-8, EW-1, EW-2, and IW-1. In those cases where the extraction and injection wells (EW-1, EW-2, and IW-1) are operating, they shall be monitored for injection and extraction rates only.

Figure 1 shows the location of the Site. Groundwater monitoring wells and the extraction wells and injection well are shown in (Figures 2 and 3). Baseline sampling will take place prior to injection.

CONSTITUENT	UNITS	TYPE OF SAMPLE	MINIMUM FREQUENCY OF ANALYSIS
Total Daily Injections	Liters	Measurement for IW-1	Daily
Groundwater Elevation	Feet below ground surface (bgs)	Grab from 11-MW-1, 11-MW-2, 11-MW-3, 11-MW-4, DMW-1d, DMW-2s, DMW-2d, DMW-3, DMW-4s, DMW-4d, DMW-5s, DMW-5d, DMW-6, DMW-7s, and DMW-8. When accessible EW-1, EW-2, and IW-1.	<ul style="list-style-type: none">• Prior to tracer injection• 1 week following tracer injection• 1 month after tracer injection• 1 week following amendment injection• 1 month after amendment injection• Quarterly thereafter
Dissolved Oxygen	mg/l	Grab from 11-MW-1, 11-MW-2, 11-MW-3, 11-MW-4, DMW-1d, DMW-2s, DMW-2d, DMW-3, DMW-4s, DMW-4d, DMW-5s, DMW-5d, DMW-6, DMW-7s, and DMW-8.	<ul style="list-style-type: none">• Prior to tracer injection• 1 week following tracer injection• 1 month after tracer injection• 1 week following amendment injection• 1 month after amendment injection• Quarterly thereafter

TENTATIVE

Oxidation-Reduction Potential	Millivolts	Grab from 11-MW-1, 11-MW-2, 11-MW-3, 11-MW-4, DMW-1d, DMW-2s, DMW-2d, DMW-3, DMW-4s, DMW-4d, DMW-5s, DMW-5d, DMW-6, DMW-7s, and DMW-8.	<ul style="list-style-type: none"> • Prior to tracer injection • 1 week following tracer injection • 1 month after tracer injection • 1 week following amendment injection • 1 month after amendment injection • Quarterly thereafter
PH	pH units	Grab from 11-MW-1, 11-MW-2, 11-MW-3, 11-MW-4, DMW-1d, DMW-2s, DMW-2d, DMW-3, DMW-4s, DMW-4d, DMW-5s, DMW-5d, DMW-6, DMW-7s, and DMW-8.	<ul style="list-style-type: none"> • Prior to tracer injection • 1 week following tracer injection • 1 month after tracer injection • 1 week following amendment injection • 1 month after amendment injection • Quarterly thereafter
Temperature	Degrees C	Grab from 11-MW-1, 11-MW-2, 11-MW-3, 11-MW-4, DMW-1d, DMW-2s, DMW-2d, DMW-3, DMW-4s, DMW-4d, DMW-5s, DMW-5d, DMW-6, DMW-7s, and DMW-8.	<ul style="list-style-type: none"> • Prior to tracer injection • 1 week following tracer injection • 1 month after tracer injection • 1 week following amendment injection • 1 month after amendment injection • Quarterly thereafter
Specific Conductance	$\mu\text{S/cm}$	Grab from 11-MW-1, 11-MW-2, 11-MW-3, 11-MW-4, DMW-1d, DMW-2s, DMW-2d, DMW-3, DMW-4s, DMW-4d, DMW-5s, DMW-5d, DMW-6, DMW-7s, and DMW-8.	<ul style="list-style-type: none"> • Prior to tracer injection • 1 week following tracer injection • 1 month after tracer injection • 1 week following amendment injection • 1 month after amendment injection • Quarterly thereafter
Turbidity	NTU	Grab from 11-MW-1, 11-MW-2, 11-MW-3, 11-MW-4, DMW-1d, DMW-2s, DMW-2d, DMW-3, DMW-4s, DMW-4d, DMW-5s, DMW-5d, DMW-6, DMW-7s, and DMW-8.	<ul style="list-style-type: none"> • Prior to tracer injection • 1 week following tracer injection • 1 month after tracer injection • 1 week following amendment injection • 1 month after amendment injection • Quarterly thereafter
Perchlorate (EPA Method 314.0)	$\mu\text{g/l}$	Grab from 11-MW-1, 11-MW-2, 11-MW-3, 11-MW-4, DMW-1d, DMW-2s, DMW-2d, DMW-3, DMW-4s, DMW-4d, DMW-5s, DMW-5d, DMW-6, DMW-7s, and DMW-8.	<ul style="list-style-type: none"> • Prior to tracer injection • 1 week following tracer injection • 1 month after tracer injection • 1 week following amendment injection • 1 month after amendment injection • Quarterly thereafter
Total Organic Carbon (EPA Method 9060 Modified)	mg/l	Grab from 11-MW-1, 11-MW-2, 11-MW-3, 11-MW-4, DMW-1d, DMW-2s, DMW-2d, DMW-3, DMW-4s, DMW-4d, DMW-5s, DMW-5d, DMW-6, DMW-7s, and DMW-8.	<ul style="list-style-type: none"> • Prior to tracer injection • 1 week following tracer injection • 1 month after tracer injection • 1 week following amendment injection • 1 month after amendment injection • Quarterly thereafter
Anions (sulfate, nitrate, nitrite and chloride, phosphate) dissolved metals (manganese, iron and arsenic), chloride, and total sulfides	mg/l	Grab from 11-MW-1, 11-MW-2, 11-MW-3, 11-MW-4, DMW-1d, DMW-2s, DMW-2d, DMW-3, DMW-4s, DMW-4d, DMW-5s, DMW-5d, DMW-6, DMW-7s, and DMW-8.	<ul style="list-style-type: none"> • Prior to tracer injection • 1 week following tracer injection • 1 month after tracer injection • 1 week following amendment injection • 1 month after amendment injection • Quarterly thereafter

TENTATIVE

All groundwater monitoring reports must include, at minimum, the following:

- a. Well identification, date and time of sampling;
- b. Sampler identification, and laboratory identification; and
- c. Semi-annual observation of groundwater levels, recorded to 0.01 feet mean sea level and groundwater flow direction.

III. REPORTING REQUIREMENTS

1. In accordance with Section 13267 of the California Water Code, the Discharger shall furnish, under penalty of perjury, technical monitoring report to the Regional Board during the evaluation and any post-test monitoring period. Such reports shall be submitted in accordance with specifications prepared by the Executive Officer.
2. The monitoring reports shall be submitted quarterly by the 15th of the following month, with the first report due January 15, 2007. Subsequent quarterly reports shall be received at the Regional Board according to the following schedule:

<u>Monitoring Period</u>	<u>Report Due</u>
January – March	April 15
April – June	July 15
July – September	October 15
October – December	January 15
Annual Summary Report	March 1 of each year

3. If there is no discharge or injection, during any reporting period, the report shall so state. Monitoring reports must be addressed to the Regional Board, Attention: Information Technology Unit.
4. All monitoring reports shall include discharge limitations in the Order (Waste Discharge Requirements and Discharge Prohibitions), tabulated analytical data, the chain of custody, laboratory report (including but not limited to date and time of sampling, date of analyses, method of analysis and detection limits). If there is no discharge, the report shall so state it.
5. Within six (6) months following the end of the evaluation the Discharger shall submit a final summary report to the Regional Board to report the findings.

The report shall contain both tabular and graphical summaries of the monitoring data obtained prior to and proceeding the pilot test. In addition, US Naval Base Ventura County, Port Hueneme shall discuss the compliance record and the corrective actions taken or planned, which may be needed to bring the discharge into full compliance with the site's waste discharge requirements, if any.

T
E
N
T
A
T
I
V
E

IV. CERTIFICATION STATEMENT

Each report shall contain the following completed declaration:

"I certify under penalty of law that this document, including all attachments and supplemental information, was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment.

Executed on the ____ day of _____ at _____.

_____(Signature)

_____(Title)"

V. MONITORING FREQUENCIES

Specifications in this monitoring program are subject to periodic revisions. Monitoring requirements may be modified or revised by the Executive Officer based on review of monitoring data submitted pursuant to this Order. Monitoring frequencies may be adjusted to a less frequent basis or parameters and locations dropped by the Executive Officer if the Discharger makes a request and the request is backed by statistical trends of monitoring data submitted.

These records and reports are public documents and shall be made available for inspection during normal business hours at the office of the California Regional Water Quality Control Board, Los Angeles Region.

Ordered by: _____
Executive Officer

Date: October 12, 2006

T
E
N
T
A
T
I
V
E

Figure 1

Site Location Map

Former Whittaker Corporation
Bermite Facility
Santa Clarita, California



Note: Topographic image derived from TerraServer

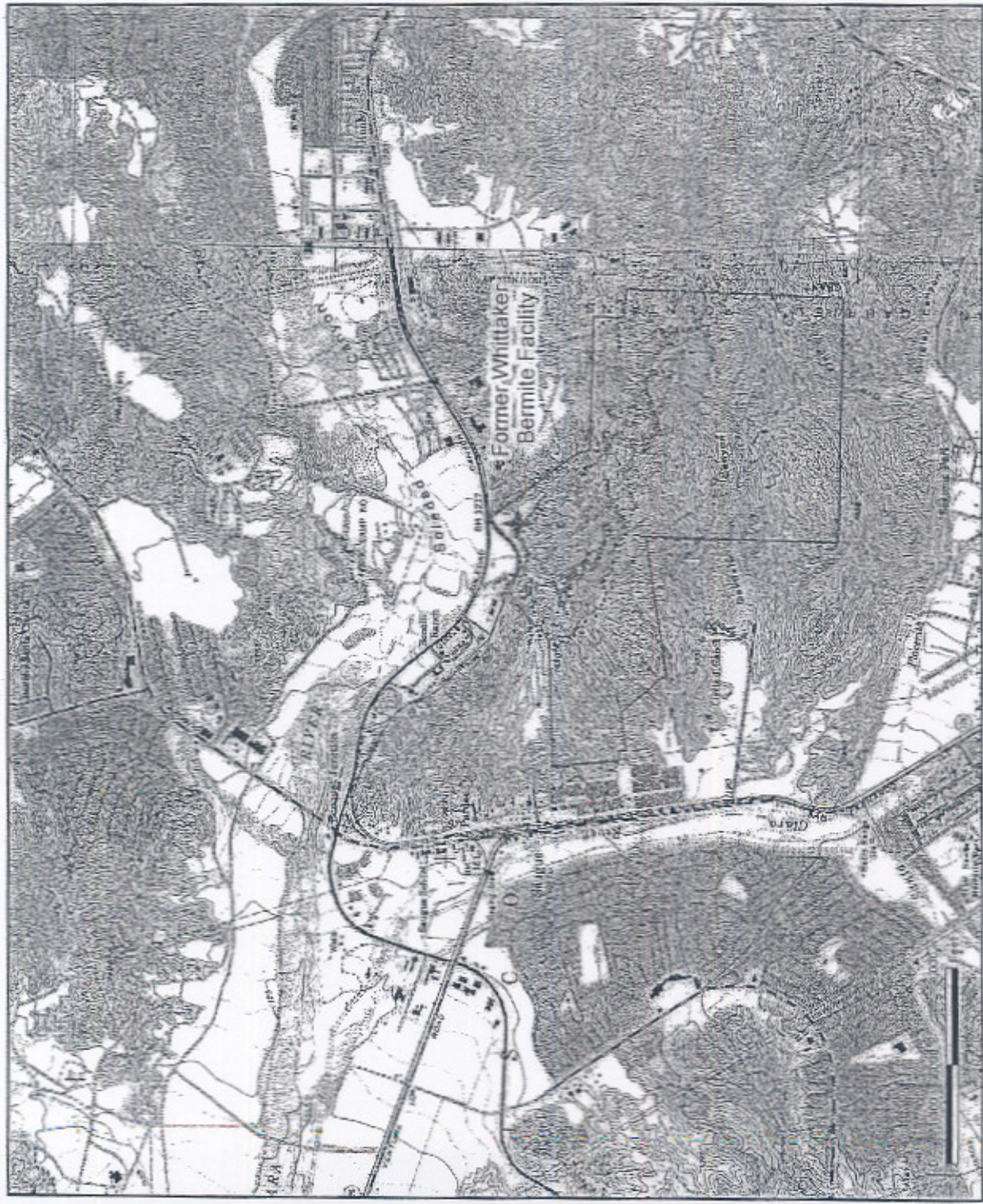


Figure 2

Demonstration Area
Location Detail

Former Whittaker Corporation
Bernite Facility
Santa Clara, California

Legend

- Existing Monitoring Well
- Proposed Monitoring Well
- Proposed Extraction Well
- Proposed Injection Well
- Fault
- OU Boundary



Note: Aerial Photo Downloaded from TerraServer



Figure 3.3

Demonstration Well
Layout - Area 11

